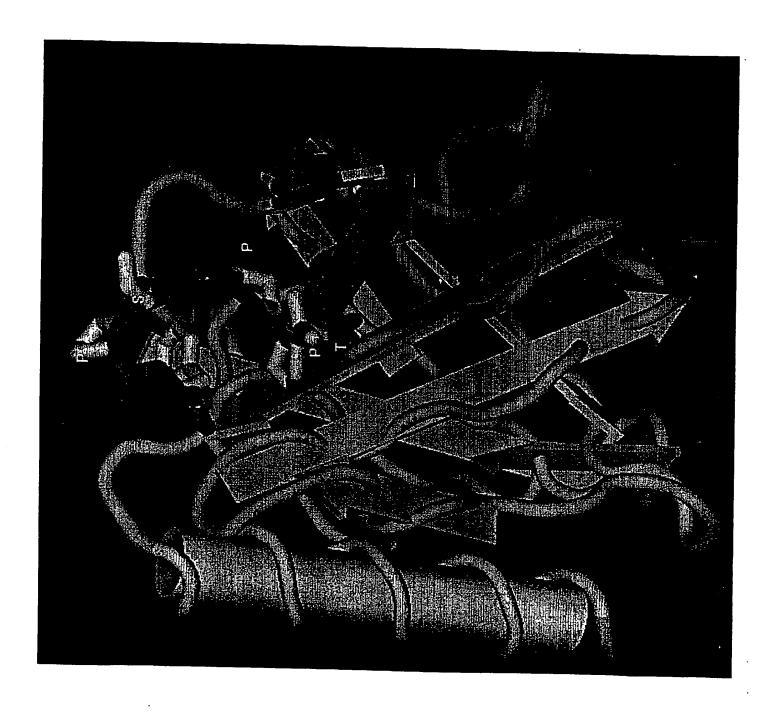
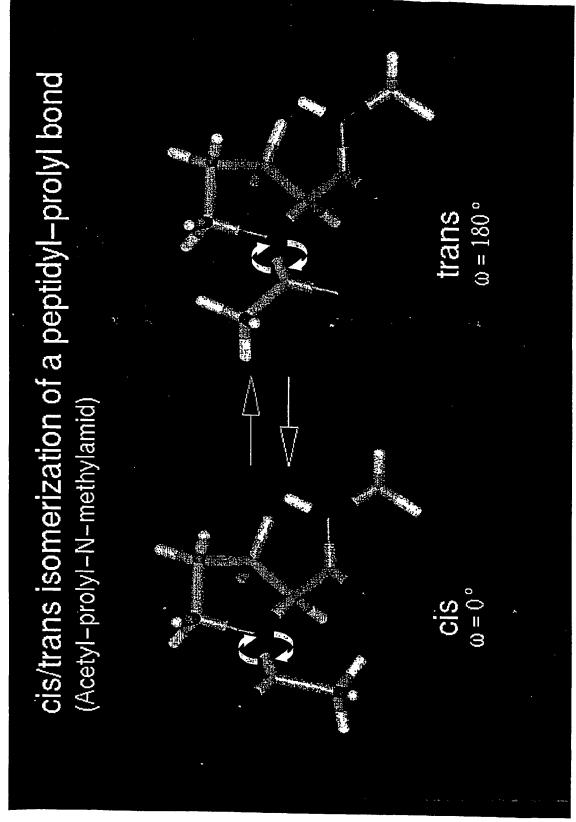
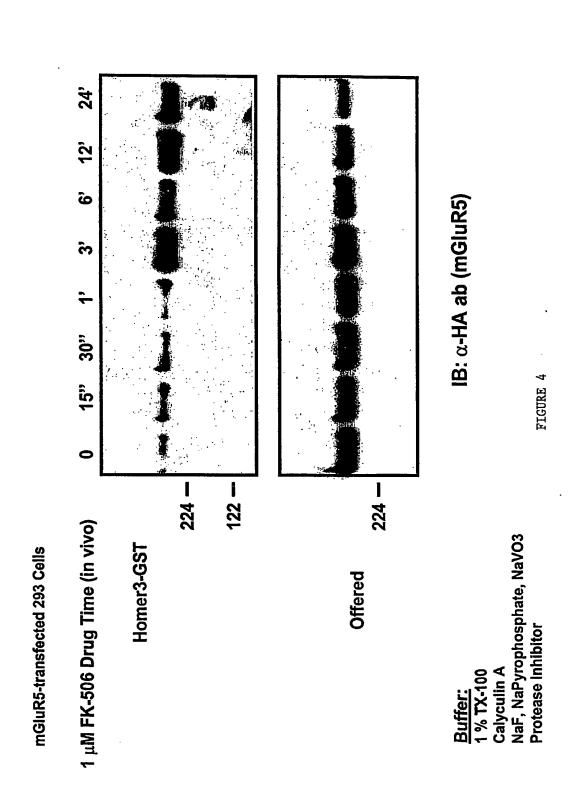
Rec'd PCT/PTO 17 DEC 2004 PCT/US2003/019499 10/518941





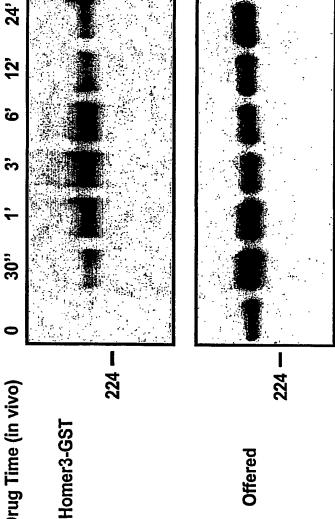
Structure of Immunophilin Ligands

Effect of FK-506 on mGluR5 Binding to Homer Time Course



Effect of GPI-1046 on mGluR5 Binding to Homer

Time Course 1 μ M GPI-1046 Drug Time (in vivo) mGluR5-transfected 293 Cells



Buffer: 1 % TX-100

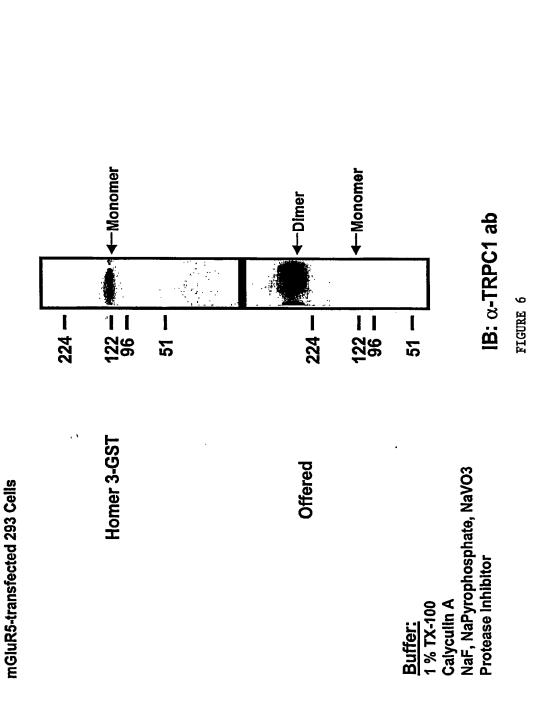
IB: α-HA ab (mGluR5)

FTCTRE

Calyculin A NaF, NaPyrophosphate, NaVO3 Protease Inhibitor

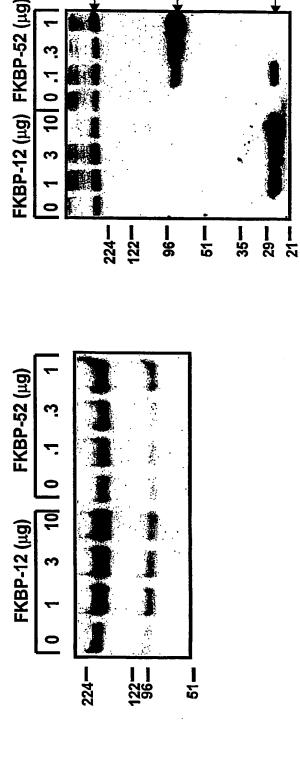
6/19

FKBP52-GST Pulls Down mGluR5



Increasing FKBP-12/-52 Increases Homer Binding to mGluR5





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FKBP-52

-FKB

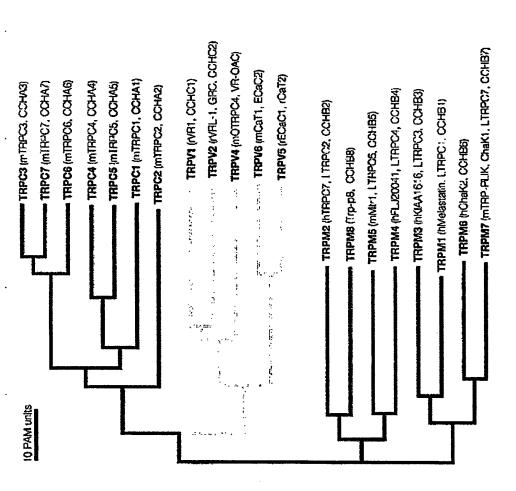
Offered

Homer3-GST

NaF, NaPyrophosphate, NaVO3 Protease Inhibitor Calyculin A 1 % TX-100 **Buffer:**

IB: α-HA ab

Phylogenetic Relationship in the TRP Protein Family

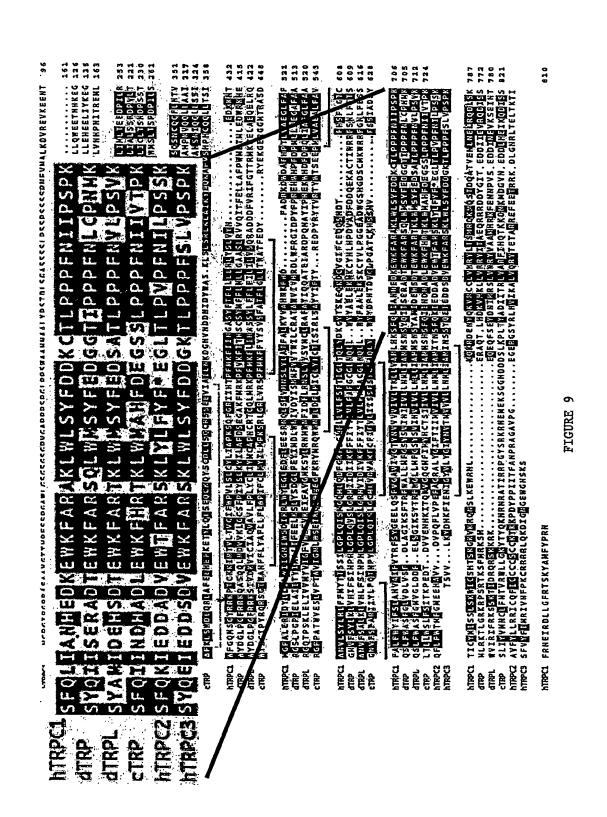


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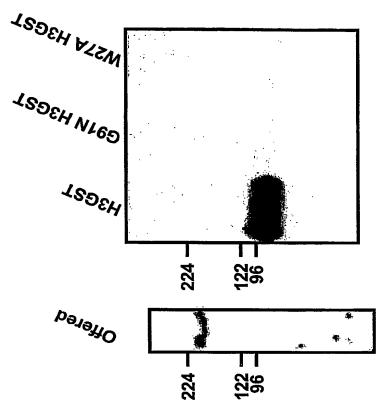
10/518941

Amino Acid Sequence of TRPC1 and Alignment to Other TRPs



Homer 3-GST Pulls Down TRPC1 from Cerebellum

Solubilized in 1 % TX-100 37,000 x g Spin



IB: α-TRPC1 ab

NaF, NaPyrophosphate, NaVO3 Protease Inhibitor Calyculin A

Buffer:

Buffer:

10/518941 11/19 IP: α-Homer 1 ab IP: α-Homer 3 ab **Brain Co-IP of Homer and TRPC1** £4 IdlH 198H IB: α-TRPC1 ab 122 — 96 — 224 -224 — 122 96 FIGURE 11 **—** 96 122 96 11 224 — 122 — 224 -1 % CHAPS Calyculin A NaF, NaPyrophosphate, NaVO3 NaF, NaPyrophosphate, NaVO3 Hippocampus Protease Inhibitor Protease Inhibitor Cerebellum Calyculin A

1 % TX-100

Buffer:

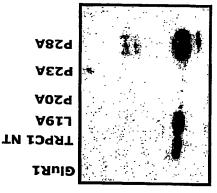
Deletion of TRPC1 C-Terminus Reveals A

12/19

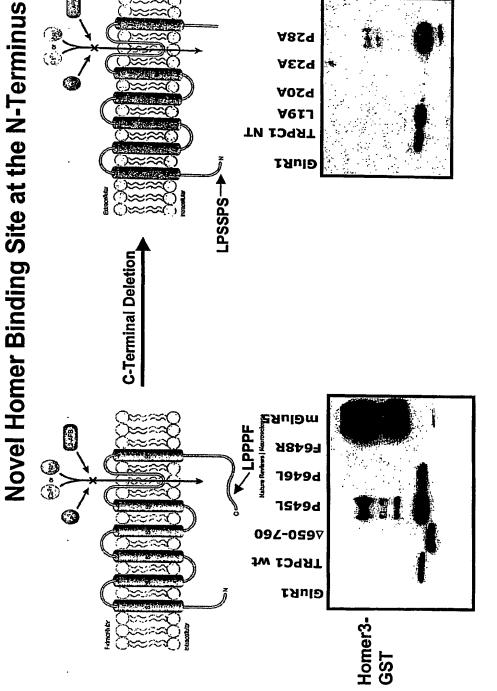
PCT/US2003/019499 10/518941

Offered

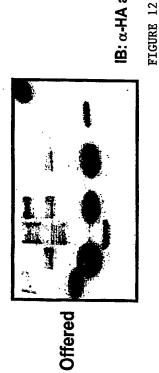
Homer3-GS



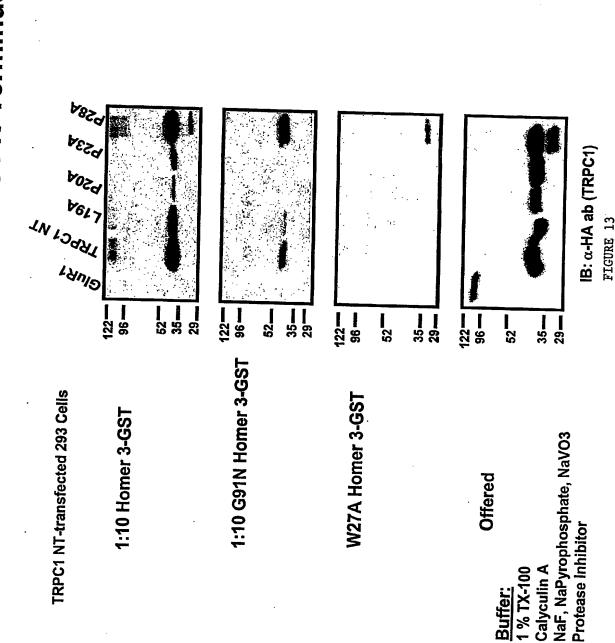
IB: α-HA ab (TRPC1)



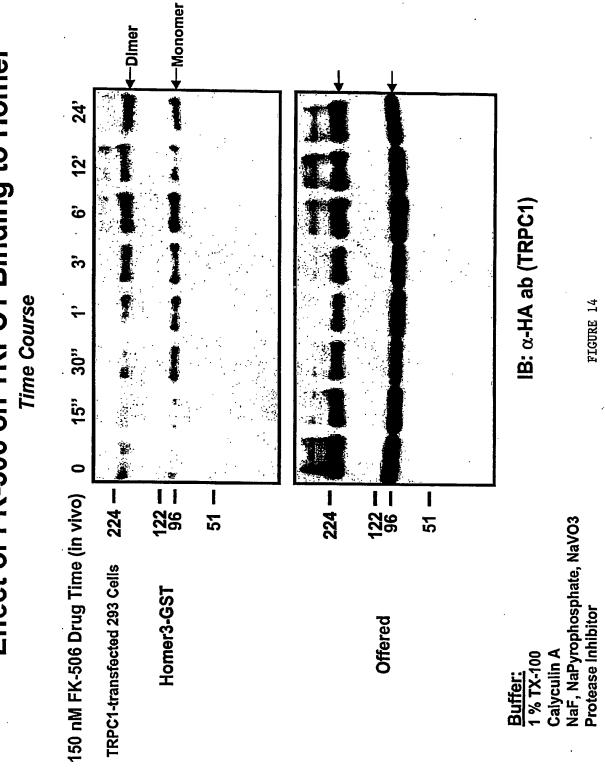
-SdSSdT



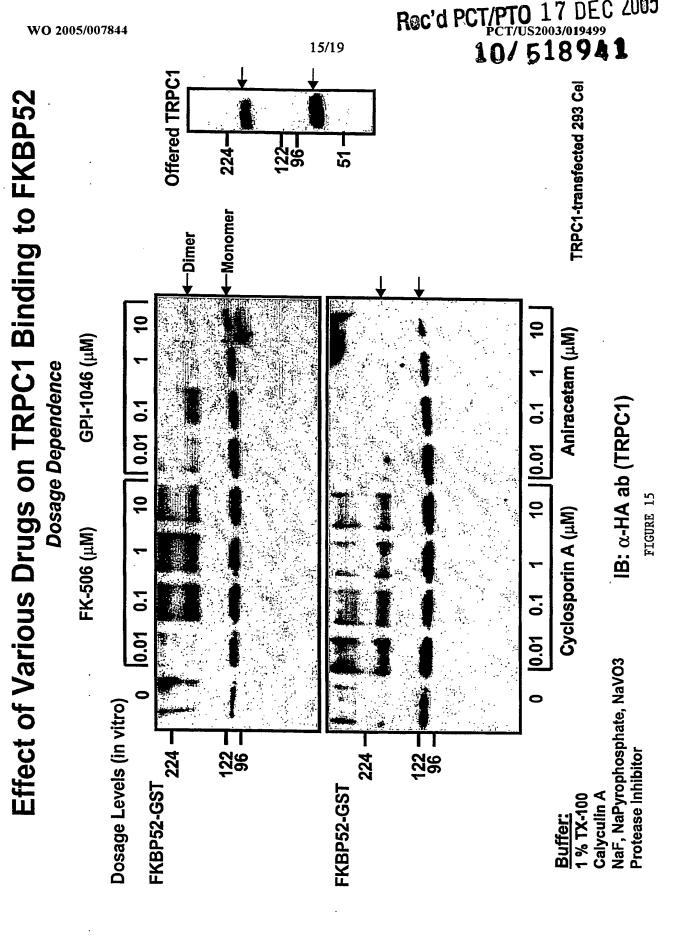
WT and G91N Homer-GST Binds To LPSSP Motif of TRPC1 N-Terminus







DEC 2005



IB: α-HA 3b (TRPC1)

NaF, NaPyrophosphate, NaVO3

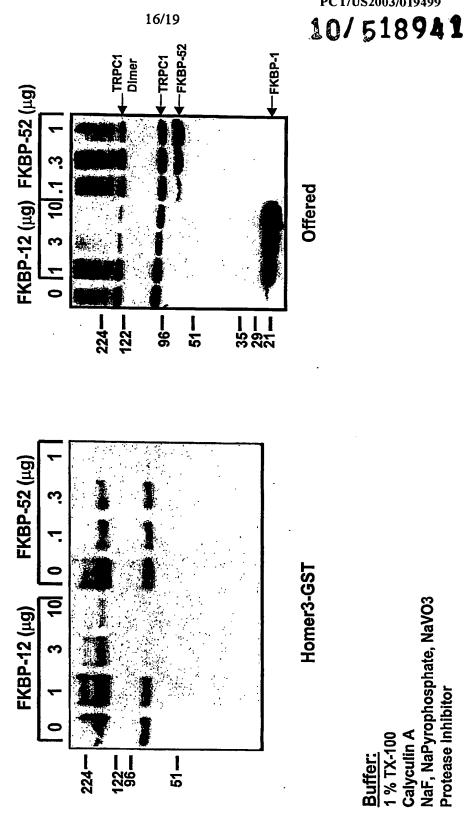
Calyculin A 1 % TX-100 **Buffer:**

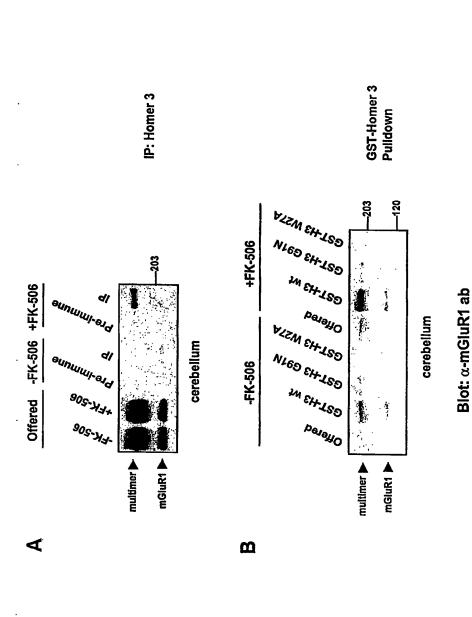
Protease Inhibitor

FIGURE 16

Effect of FKBP-12/FKBP-52 on TRPC1 Binding to Homer

TRPC1-transfected 293 Cells +:





Adult rat was injected (i.p.) with 10 mg/kg FK-508 or vehicle only (DMSO). After 3 hours, the rats were sacrificed, and the carebellum was collected. (A) Homer 3 columnunoprecipitation of mGluR1 multimer increases with FK-506 treatment vs. control. Rats 4/- FK-506 express equal offered amounts. (B) WT GST-Homer 3 pulldown of mGluR1 multimer increases with FK-506 treatment vs. control.

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Met Gly Glu Gln Pro Ile Phe Ser Thr Arg Ala His Val Phe Gln Ile Asp Pro Asn Thr Lys Lys Asn Trp Val Pro Thr Ser Lys His Ala Val Thr Val Ser Tyr Phe Tyr Asp Ser Thr Arg Asn Val Tyr Arg Ile Ile Ser Leu Asp Gly Ser Lys Ala Ile Ile Asn Ser Thr Ile Thr Pro Asn Met Thr Phe Thr Lys Thr Ser Gln Lys Phe Gly Gln Trp Ala Asp Ser Arg Ala Asn Thr Val Tyr Gly Leu Gly Phe Ser Ser Glu His His Leu Ser Lys Phe Ala Glu Lys Phe Gln Glu Phe Lys Glu Ala Ala Arg Leu Ala Lys Glu Lys Ser Gln Glu Lys Met Glu Leu Thr Ser Thr Pro Ser Gln Glu Ser Ala Gly Gly Asp Leu Gln Ser Pro Leu Thr Pro Glu Ser Ile Asn Gly Thr Asp Asp Glu Arg Thr Pro Asp Val Thr Gln Asn Ser Glu Pro Arg Ala Glu Pro Ala Gln Asn Ala Leu Pro Phe Ser His Arg Tyr Thr Phe Asn Ser Ala Ile Met Ile Lys

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